## **CUSERID**

Never rely on username for security - (Function is obsolete)

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## Part "Original Cigital Coding Rule in XML"

Mime-type: text/xml, size: 4441 bytes

<b>Attack Category</b>	Privilege E	Privilege Exploitation			
Vulnerability Category	Access Control				
Software Context	Authorization				
Location	• stdio.h				
Description	cuserid(char *s) generates a character-string representation of the user name corresponding to the effective user ID of the process. If s is a NULL pointer, this representation is generated in an internal static area, the address of which is returned. Otherwise, s is assumed to point to an array of at least L_cuserid characters; the representation is left in this array. The constant L_cuserid is defined in the <stdio.h>header file.  Never rely on username for security.  cuserid() should be considered obsolete.  This function has been or will be deprecated in several systems (e.g., HPUnix. ISO POSIX-1).  Additionally this function has changed capability within a given OS (HP).</stdio.h>				
APIs	Function Name	<b>Function Name</b>		Comments	
	cuserid	cuserid			
Method of Attack					
Exception Criteria					
Solutions	Solution Applicability	Solution Description		Solution Efficacy	
	Generally applicable	Convert to getpwuid (getuid()), getpwuid (geteuid()), or getlogin(), depending on		Effective.	

<sup>1.</sup> http://buildsecurityin.us-cert.gov/bsi-rules/35-BSI.html (Barnum, Sean)

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	which user name is desired.			
Signature Details	char *cuserid(char *s);			
<b>Examples of Incorrect Code</b>	// The function is deprecated			
	char *t_userid;			
	<pre>#ifdefGNUC (int)t_userid = cuserid((char *) NULL); #else t_userid = cuserid((char *) NULL); #endif /*</pre>			
Examples of Corrected Code	<pre>void user_name(void) { /* See the getpwuid man page * for a description of the * structure. */</pre>			
	struct passwd *passwd;			
	<pre>/* Get the uid of the running * process and use it to get * a record from /etc/passwd */</pre>			
	<pre>passwd=getpwuid(getuid());</pre>			
	<pre>printf("Users Real name is %s\n", passwd-&gt;pw_gecos); }</pre>			
Source References	cuserid manpage			
	• HP-UX Reference. cuserid(3S <sup>2</sup>			
Recommended Resource				
Discriminant Set	Operating System • Windows			
	Languages • C			
	• C++			

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